

Ayşe Neren Ökte
Professor of Chemistry
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Research Interests: Physical Chemistry, Kinetics, Photocatalysis, Photochemistry

Education

- Ph.D. in Chemistry: 1999

Boğaziçi University

- MS. in Chemistry: 1994

Boğaziçi University

- B.S. in Chemistry: 1992

Boğaziçi University

Academic Positions

- Professor: Boğaziçi University, Department of Chemistry (2015-)
- Associate professor: Boğaziçi University, Department of Chemistry (2010-2015)
- Assistant professor: Boğaziçi University, Department of Chemistry (2002-2010)
- Postdoctoral Fellow: Duisburg-Essen University, Department of Chemistry/Physical Chemistry Germany (2000-2002)
- Research Asistant: Boğaziçi University, Department of Chemistry (1994-2000)

Administrative Duties

- Department of Chemistry, Head of Department (2017-2018)
- Faculty of Arts and Sciences, Vice Dean (2014-2016)
- Faculty Council, member (2014-2016)
- Faculty Executive Committee, member (2013-2014)
- Academic Integrity Commission, member (2014-2016)
- Foreign Student Placement Committee, member (2014-2016)

Selected Publications

- 1.Improved Adsorption Capacity and Photoactivity of ZnO-ZIF-8 Nanocomposites, Tuncel, D., **Ökte, A. N. (corresponding author)**, Catalysis Today, 361, 191-197, 2021.
- 2.ZnO@CuO derived from Cu-BTC for efficient UV-induced photocatalytic applications, Tuncel, D., **Ökte, A. N. (corresponding author)**, Catalysis Today, 328, 149-156, 2019.
- 3.Efficient photoactivity of TiO₂-hybrid-porous nanocomposite: Effect of humidity, Tuncel, D., **Ökte, A. N. (corresponding author)**, Applied Surface Science, 458, 546-554, 2018.
- 4.The Effect of ZnO or TiO₂ Loaded Nanoparticles on the Adsorption and Photocatalytic Performance of Cu-BTC and ZIF-8 MOFs, **Ökte, A. N. (corresponding author)**, Karamanis, D., Chalkia, E., Tuncel, D., Materials Chemistry and Physics, 187, 5-10, 2017.
- 5.Characteristics of iron-loaded TiO₂-supported montmorillonite catalysts: beta-Naphthol degradation under UV-A irradiation, **Ökte, A.N (corresponding author)**, Tuncel D.; Pekcan A. H, Özden T. Journal of Chemical Technology And Biotechnology, 89 (8), 1155-1167, 2014.
- 6.Dual functionality of TiO₂-flyash nanocomposites: Water vapor adsorption and photocatalysis, **Ökte, A.N. (corresponding author)**; Karamanis, D.; Tuncel, D., Catalysis Today, 230, 205-213, 2014.
- 7.Characterization and photocatalytic activity of Ln (La, Eu, Gd, Dy and Ho) loaded ZnO nanocatalysts, **Ökte, A.N**, Applied Catalysis A-General, 475, 27-39, 2014.
- 8.A novel photoresponsive ZnO-flyash nanocomposite for environmental and energy applications, **Ökte A.N. (co-corresponding author)**, Karamanis D., Applied Catalysis B-Environmental, 142, 538-552, 2013.

Projects

TiO ₂ Üzerine Adsorbe Edilmiş Hidrokloroflorokarbonların Gaz-Katı Ortamında Foto-Degradasyonunun 147nm Vakum-UV Enerjetik Radyasyonu ile İncelenmesi	Bogazici BAP	2002-2005	Coordinator
Moleküler Bazda Adsorpsiyon ve Fotokatalitik Degradasyon: Nano-TiO ₂ Sentezi ve Nano TiO ₂ -Sepiolit İkili Sistemi	Bogazici BAP	2005-2006	Coordinator
TiO ₂ Pillared Montmorillonit: Karakterizasyon ve Fotokatalitik Degradasyon Çalışmaları	Bogazici BAP	2006-2007	Coordinator
Zeolit Bazlı Materyallerin Fotokatalitik Özellikleri	Bogazici BAP	2007-2008	Coordinator
Fe (III) Katılımlı TiO ₂ Katalistleri: Karakterizasyon ve Degradasyon Çalışmaları	Bogazici BAP	2008-2009	Coordinator
ZnO Bazlı Materyallerin Fotokatalitik Özellikleri	Bogazici BAP	2009-2010	Coordinator
Gd ve Eu Katılımlı ZnO Katalistlerinin Aktivitelerinin İncelenmesi	Bogazici BAP	2010-2011	Coordinator

TiO ₂ ve ZnO Katılımlı Uçucu Kül Kompozitleri	Bogazici BAP	2011-2012	Coordinator
Pollutants Degredation and Evaporative Surface Cooling with the use of the Environmental Technology of Innovative Photo-Responsive Materials	TUBITAK	2011-2013	Coordinator
MnO ₂ Destekli Katalist Matriksleri	Bogazici BAP	2013-2014	Coordinator
ZnO-FA-Sepiolite Katalistleri: Karakterizasyon ve Aktivite İncelenmesi	Bogazici BAP	2014-2015	Coordinator
Novel Solar Responsive Porous/Semiconducting Nano-Composites for the Mitigation of Urban Chemical and Thermal Pollution	TUBITAK	2014-2016	Coordinator
Modifiye Montmorilonit Destekli ZnO Katalistleri Karakterizasyon ve Fotoaktivite Çalışmaları	Bogazici BAP	2016-2017	Coordinator
Montmorilonit ve kül destekli fotokatalistlerin yapı ve aktivite analizleri	Bogazici BAP	2017-2018	Coordinator
The effect of ZnO and TiO ₂ nanoparticles on the adsorption and photocatalytic performance of Cu-BTC, ZIF-8 and MCM type supports	Bogazici BAP	2017-2019	Coordinator
ZnO-Hidroksiapatit ve Metal-ZnO-Hidroksiapatit Kompozit Yapıların Sentezi, Karakterizasyon ve Fotoaktivite Çalışmaları	Bogazici BAP	2022-	Coordinator

Teaching Experience

Undergraduate-level courses

Chem 103: General Chemistry I
 Chem 104: General Chemistry II
 Chem 245: Inorganic Chemistry I
 Chem 247: Inorganic Chemistry Laboratory
 Chem 351: Physical Chemistry I
 Chem 353: Introduction to Physical Chemistry
 Chem 422: Photochemistry
 Chem 453: Introduction to Chemical Kinetics
 Chem 473, Chem 474, Chem 475: Research Techniques in Chemistry I, II and III

Graduate-level courses

Chem 512: Advanced Physical Chemistry
 Chem 571: Photochemistry
 Chem 524: Chemical Kinetics and Catalysis